

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 4    | ((("6250378") or ("6672373") or ("20040253130") or ("5117901") or ("20030037909") or ("5732765"))).PN.  | USPAT   | OR               | OFF     | 2006/07/11 14:56 |
| L2    | 4    | ((("6250378") or ("6672373") or ("5117901") or ("5732765"))).PN. or ((2004/0253130) or (2003/0037909)).CCLS.  | US-PGPUB;<br>USPAT                                      | OR               | OFF     | 2006/07/11 14:56 |
| L3    | 6    | ((("6250378") or ("6672373") or ("20040253130") or ("5117901") or ("20030037909") or ("5732765"))).PN.  | US-PGPUB;<br>USPAT                                      | OR               | OFF     | 2006/07/11 15:02 |
| L4    | 8    | computer and ((oscillat\$3 or pulsat\$3) adj (heat adj pipe))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/11 16:04 |
| L5    | 34   | ("20020074649"   "20020080584"   "20030081383"   "20040070943"   "20040082188"   "20040187501"   "20040188817"   "4595338"   "4751713"   "4780062"   "4834619"   "4923000"   "5008582"   "5381950"   "5634351"   "5861703"   "5921757"   "6078502"   "6353295"   "6469381"   "6549407"   "6561267"   "6609561"   "6636423"   "6639799"   "6646874"   "6650542"   "6653730"   "6661660"   "6706562"   "6713942"   "6770966"   "6785134"   "6795311").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | ON      | 2006/07/11 15:06 |
| L6    | 9    | "361"/\$.ccls. and ((oscillat\$3 or pulsat\$3) adj (heat adj pipe))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/11 15:36 |
| L9    | 3    | display and ((oscillat\$3 or pulsat\$3) adj (heat adj pipe))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/07/11 15:36 |

## EAST Search History

|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| L10 | 34 | ("20020074649"   "20020080584"   "20030081383"   "20040070943"   "20040082188"   "20040187501"   "20040188817"   "4595338"   "4751713"   "4780062"   "4834619"   "4923000"   "5008582"   "5381950"   "5634351"   "5861703"   "5921757"   "6078502"   "6353295"   "6469381"   "6549407"   "6561267"   "6609561"   "6636423"   "6639799"   "6646874"   "6650542"   "6653730"   "6661660"   "6706562"   "6713942"   "6770966"   "6785134"   "6795311").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/07/11 15:38 |
| L11 | 27 | ((oscillat\$3 or pulsat\$3) adj (heat adj pipe))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/11 15:38 |
| L12 | 32 | computer and ((oscillat\$3 or pulsat\$3) same (heat adj pipe))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/11 16:04 |
| L13 | 24 | 12 not 4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/07/11 16:04 |
| L14 | 24 | ("4550774"   "4612978"   "4766885"   "5203399"   "5303768"   "5316077"   "5381859"   "5394936"   "5441102"   "5646824"   "5697428"   "5713413"   "5725049"   "5729995"   "5743325"   "5764483"   "5845702"   "5998863"   "6005772"   "6016251"   "6115252"   "6137682"   "6164368"   "6166907").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/07/11 16:07 |
| L15 | 46 | ("4552208"   "4625790"   "4818845"   "4959526"   "5006689").PN. OR ("5203399").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/07/11 16:09 |
| L16 | 12 | ("4330033"   "5203399"   "5219020"   "5289869"   "5634351"   "5871043"   "6005772"   "6070654"   "6104611"   "6173761").PN. OR ("6564861").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2006/07/11 16:14 |